

Abstract

The present invention proposes formative agent of protein complex, in which a polyphenol is useful component, and the agent is useful as gene complex, cell adhesion inhibitor or immune tolerogen.

The polyphenol of forming the agent is selected from catechin group consisting of epigallocatechin-gallate, tannic acids, or proanthocyanidin, a protein of the protein complex is selected from proteins consisting of animal proteins composed of polypeptide chain of peptide-combined amino acids, vegetative proteins, nucleus proteins, glycogen proteins, lipo-proteins and metal proteins, the gene complex comprises by compositing genes by polyphenol catechins in order to introduce genes to cells of animals or human bodies, a cell composed of the cell adhesion inhibitor is selected from cells consisting of an animal cell including a stem cell, skin cell, mucosa cell, hepatocyte, islet cell, neural cell, cartilage cell, endothelial cell, epidermal cell, osteocyte or muscle cell isolated from human or animal organism, or sperm, ovum or fertilized egg of domestic animals or fishes and a tissue or an organ for transplantation of the immune tolerogen is selected from the tissue or the organ consisting of skin, blood vessel, cornea, kidney, heart, liver, umbilical cord, bowels, nerve, lung, placenta or pancreas.